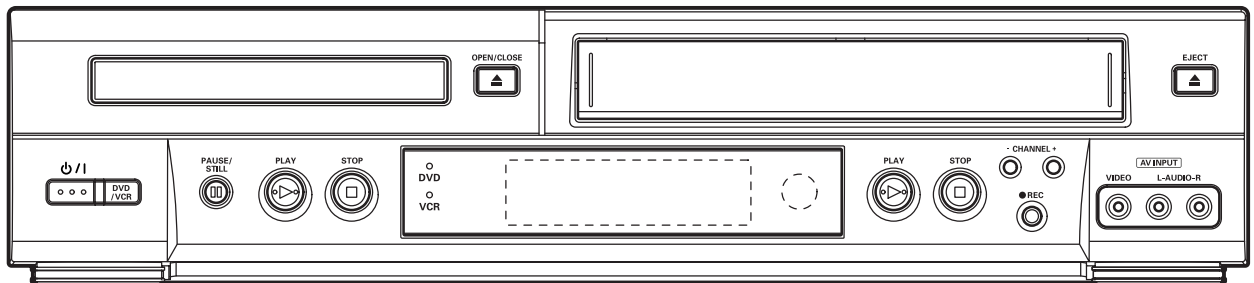





INSTRUCTION MANUAL

HV-DX2E

DVD Player + Video Cassette Recorder



Only cassettes marked  can be used with this DVD+VCR.

Please read this manual carefully before connecting your DVD+VCR and operating it for the first time.
Keep the manual in a safe place for future reference.

Safety Precautions



WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING: TO REDUCE THE RISK
OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.





The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER

Beware of moisture condensation

Moisture in the air will condense on the DVD+VCR when you move it from a cold place to a warm place, or under extremely humid conditions — just as water droplets form on the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the DVD+VCR's power turned on for a few hours to let the moisture dry.

- The unit is not completely disconnected from the mains when the /I button is set to the  position.

CAUTION:

This DVD+VCR employs a Laser System.

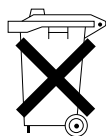
To ensure proper use of this product, please read this instruction manual carefully and retain it for future reference. Should the unit require maintenance, contact an authorized service location-see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. **DO NOT STARE INTO BEAM.**

CAUTION: The apparatus shall not be exposed to water, dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION: Do not put your hand or other objects in the cassette compartment because of the risk of injury or an accident. Keep small children away from the DVD+VCR.



Used batteries:

The batteries in the remote control of your DVD+VCR do not contain mercury. However, SANYO recommends that you do not dispose of used batteries with domestic refuse.

Please, contact your dealer or your local authorities for information regarding the disposal of used batteries or take them to your nearest collection point.



Notes on copyrights:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright material without permission.

This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

SERIAL NUMBER: The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. _____

Serial No. _____

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About the symbols for instructions

-  Indicates hazards likely to cause harm to the unit itself or other material damage.
-  Indicates special operating features of this unit.
-  Indicates tips and hints for making the task easier.

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.
The VIDEO Plus+ System is manufactured under licence from Gemstar Development Corporation.

Before Use

Playable Discs



DVD
(8 cm / 12 cm disc)



Audio CD
(8 cm / 12 cm disc)

In addition, this unit can play a CD-R or CD-RW that contains audio titles or MP3 files and Video CD also.

Notes

- Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit.
- The unit cannot play the CD-R/RW discs that contain no data, or contain different kinds of formatted data other than MP3 and CD-DA data.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregular shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available, or other functions may be added.

Refer also to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be played on the unit.

Regional code of the DVD+VCR and DVDs

This DVD+VCR is designed and manufactured for playback of region “2” encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled “2” or “ALL”. If you try to play any other discs, the message “Check Regional Code” will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.



Note on DTS-encoded CDs

To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the unit.

Disc-related terms

Title (DVD only)

The main film content or accompanying feature content or additional feature content, or music album. Each title is assigned a title reference number enabling you to locate it easily.

Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles.

A title is composed of one or several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, no chapters may be recorded.

Track (Video CD and audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called “Scenes”. Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.

A scene is composed of one or several tracks.

Types of video CDs

There are two types of video CDs:

Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

Before Use (Cont'd)

Precautions

Handling the unit

When shipping the unit

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

When setting the unit

The picture and sound of a nearby TV or radio may be distorted during playback. In this case, position the unit away from the TV or radio, or turn off the unit after removing the disc.

Do not install this equipment in a confined space, such as a book case or built in cabinet.

To keep the surface clean

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Cleaning the unit

To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzene, or thinner, as these might damage the surface of the unit.

To obtain a clear picture

The DVD+VCR is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)

For details, please contact your nearest dealer.

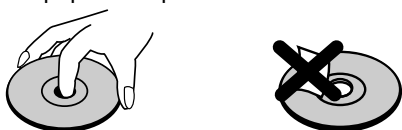
Notes on Discs

Handling discs

Do not touch the playback side of the disc.

Hold the disc by the edges so that fingerprints will not get on the surface.

Do not stick paper or tape on the disc.



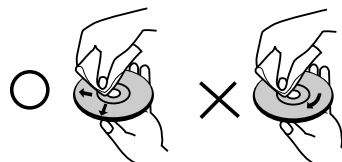
Storing discs

After playing, store the disc in its case.

Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Cleaning discs


Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.






About Symbols

About the symbol display

“” may appear on the TV screen during operation. This icon means the function explained in this instruction manual is not available on that specific DVD video disc.

About the disc symbols for instructions

A section whose title has one of the following symbols is applicable only to those discs represented by the symbol.

-  DVDs
-  Video CDs with the PBC (playback control) function
-  Video CDs without the PBC (playback control) function
-  Audio CDs
-  MP3 discs

Setting the Output Source

You must select one of your output sources (DVD or VCR) to view on the TV screen.

- **If you want to view output source of DVD deck:**
Press DVD on the remote or DVD/VCR on the front panel until DVD indicator on the front panel lights and output source of DVD deck is viewed on the TV screen.
- **If you want to view output source of VCR deck:**
Press VCR on the remote or DVD/VCR on the front panel until VCR indicator on the front panel lights and output source of VCR deck is viewed on the TV screen.

Front Panel

Disc Tray (DVD deck)
Insert a disc here.

EJECT(▲)
Ejects the tape in the VCR deck.

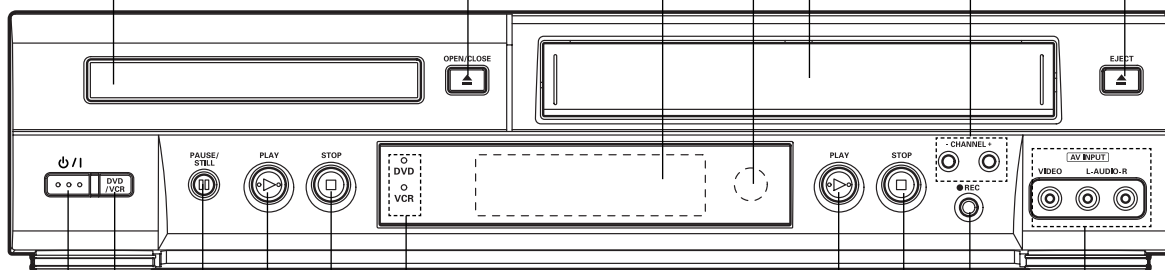
CHANNEL (+/-)
To scan up or down through memorized channels.

Cassette Compartment (VCR deck)
Insert a video cassette here.

Remote Sensor
Point the DVD+VCR remote control here.

Display window
Shows the current status of the DVD+VCR.

OPEN/CLOSE (▲)
Opens or closes the disc tray.



PLAY (▶)
Starts playback of a tape in the VCR deck.

DVD/VCR indicator
Indicates the active deck.

STOP (■)
Stops playback of disc.

STOP (■)
Stops playback of tape.

PLAY (▶)
Starts playback of a disc in the DVD deck.

REC (●)
To record normally or to activate Instant Timer Recording.

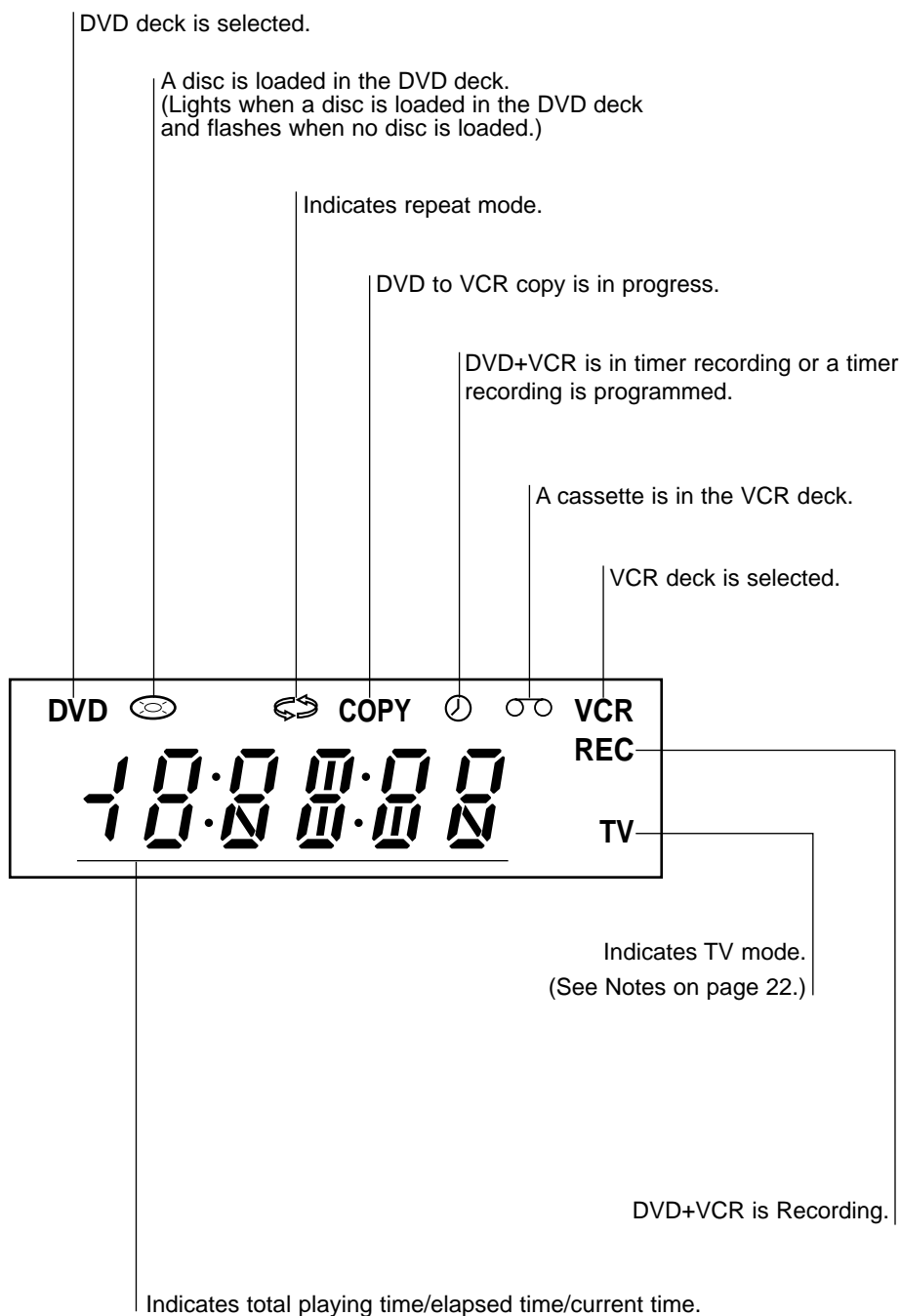
PAUSE/STILL(⏸)
Pause playback of a disc in the DVD deck temporarily/ press repeatedly for frame-by-frame playback.

AV INPUT (VIDEO IN/AUDIO IN (Left/Right))
Connect the audio/video output of an external source (Audio system, TV/Monitor, Another VCR).

DVD/VCR
Select the output source (DVD or VCR) to view on the TV screen.

⏻/I
Switches the DVD+VCR ON and OFF.

Display Window



Remote Control

DVD/VCR select button

Select the output source (DVD or VCR) to view on the TV screen.



Switches DVD+VCR ON and OFF.

TV/VCR

To view channels selected by the VCR tuner or by the TV tuner.

DISPLAY, CLK/CNT

Accesses On-Screen display.

Switches among the clock, tape counter and tape remaining modes on the display.

◀/▶/▲/▼ (left/right/up/down)

- Selects an option in the menu

- **CH/TRK** (▲/▼): Selects channel of VCR. Adjusts manually the tape's picture on screen.

SETUP/i

Accesses or removes DVD setup menu and VCR menu.

TITLE ●

Displays the disc's Title menu, if available.

PAUSE/STEP (||) ●

Pause playback or recording temporarily / press repeatedly for frame-by-frame playback.

STOP (■) ●

Stops playback.

REC (●) ●

Records normally or activates Instant Timer Recording.

0-9 numerical buttons

Selects numbered options in a menu.

AUDIO ●

Selects an audio language (DVD) or an audio channel (CD).

SUBTITLE ●

Selects a subtitle language.

MARKER ●

Marks any point during playback.

SEARCH ●

Displays MARKER SEARCH menu.

REPEAT ●

Repeat chapter, track, title, all.

RANDOM, Ad JUMP ●

- Plays tracks in random order.

- Fast forwards picture search through 30 seconds of recording.

VIDEO Plus+ ●

To display the programme menu for VIDEO Plus+ System programming

A-B, SP/LP ●

- Repeats sequence.

- Selects recording speed

OPEN/CLOSE, EJECT (⏏)

- Opens and closes the disc tray.

- Ejects the tape in the VCR deck.

SELECT/OK

- Acknowledges menu selection.

- Displays functions on the TV screen.

This button is not available.

DISC MENU

Accesses menu on a DVD disc.

AV

To select the VCR deck's source (Tuner, AV1, AV2 or AV3).

● FORWARD (▶▶)

DVD; Search forward*/ go to next chapter or track.

VCR; Advances the tape during the STOP mode or for fast forward picture search.

● PLAY (▶)

Starts playback.

● BACKWARD (◀◀)

DVD; Search backward*/ go to beginning of current chapter or track or go to previous chapter or track.

VCR; Rewinds the tape during the STOP mode or for fast reverse picture search.

* Press and hold button for about two seconds.

PROGRAM

Accesses or removes Programme menu.

CLEAR

Removes a track number on the programme menu or a mark on the MARKER SEARCH menu.

● SAFE

Switch the Lock function on and off.

● ANGLE

Selects a DVD camera angle if available.

● RETURN

Removes the setup menu.

● ZOOM

Enlarges DVD video image.



Note

This remote control uses the same buttons for VCR and DVD functions (ex. PLAY).

When using a VCR, first press the VCR button.

When using a DVD, first press the DVD button.

AERIAL

Connect the aerial using this jack.

EURO AV2

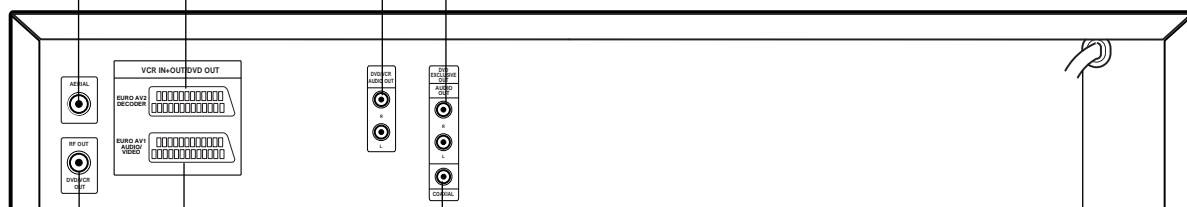
Connect to another video recorder.

DVD/VCR AUDIO OUT

Connect to an amplifier, receiver or stereo system.

AUDIO OUT (Left/Right) (DVD OUT)

Connect to an amplifier, receiver or stereo system.



COAXIAL (Digital audio out jack) (DVD OUT)

Connect to digital (coaxial) audio equipment.

EURO AV1 AUDIO/VIDEO (VCR IN+OUT/DVD OUT)

Connect to your TV set or another video recorder.

RF OUT (DVD/VCR OUT)

Connect to your TV using this jack.

Mains lead

Connect to a power source.

Caution

Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the DVD+VCR.

Note

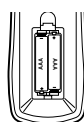
The EURO AV2 socket is used for signal input/output only. DECODER is shown but this DVD+VCR does not have it.

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- **Distance:** About 6m (20ft) from the front of the remote sensor
- **Angle:** About 30° in each direction of the front of the remote sensor

Remote control battery installation



Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with **+** and **-** aligned correctly.

Caution

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

Connections

Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the DVD+VCR.
- Please refer to the manuals of your TV, Stereo System or other devices as necessary to make the best connections.
- For better sound reproduction, connect this DVD+VCR's AUDIO OUT jacks to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment. See "Connecting to Optional Equipment" on page 11.

Caution

- Make sure the DVD+VCR is connected directly to the TV. Set the TV to the correct video input channel.
- Do not connect the DVD+VCR's AUDIO OUT jack to the phono in jack (record deck) of your audio system.

Connecting to a TV & Satellite

Receiver

Make one of the following connections, depending on the capabilities of your existing equipment.

Basic connection (AV)

1 Connect the **EURO AV1 AUDIO/VIDEO** on the rear panel of the DVD+VCR to the scart input socket on the TV using a SCART lead (**S**).

2 You can connect such a Satellite, Cable or Digital set top box to the DVD+VCR (**D**).

Basic connection (RF)

1 Connect the aerial cable (**A**) from your indoor/ outdoor aerial to **AERIAL** jack on the rear panel of DVD+VCR.

2 Connect the supplied RF cable (**R**) from the RF OUT jack on the rear panel of DVD+VCR to your television's Aerial Input.

POWER: This DVD+VCR operates on a mains supply of 200-240V~, 50Hz.

This appliance is supplied with BS 1363 approved 13 Amp fused mains plug. When replacing the fuse always use a 5 Amp BS 1362 approved type. Never use this plug with the fuse cover omitted.

To obtain a replacement fuse cover contact your supplying dealer.

If the mains sockets in your home differ, or are not suitable for the type of plug supplied, then the plug should be removed and a suitable type fitted.

If the mains plug becomes severed from the mains lead it must be destroyed. A mains plug with bared wires is hazardous if engaged in a mains output line socket.

If a 13 Amp BS 1363 plug is not suitable or any other type of plug used, then this appliance must be protected by a 5 Amp fuse.

Should you need to change the plug

The wires in this mains lead are coloured in accordance with the following codes

BLUE ~ Neutral

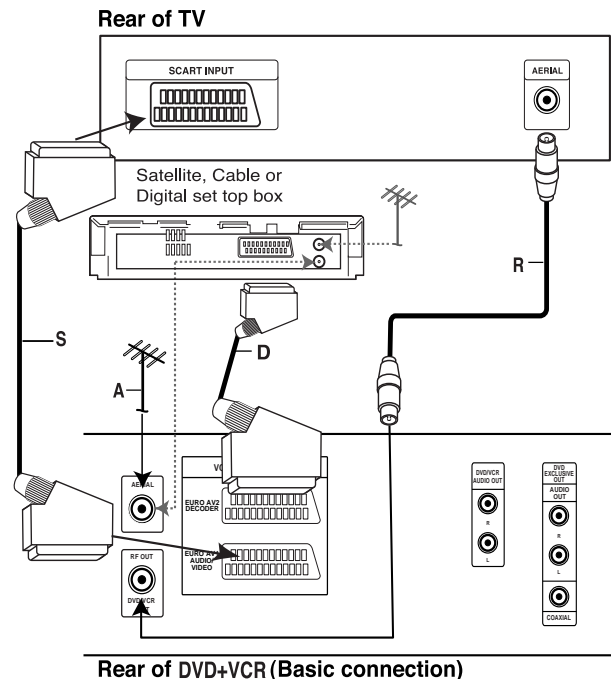
BROWN ~ Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug proceed as follows :

The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured **BLUE** or **BLACK**.

The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured **BROWN** or **RED**.

DO NOT connect either wire to the **EARTH** terminal.



Connections (Cont'd)

Connecting to Optional Equipment

Connecting to an amplifier equipped with two channel analog stereo or Dolby Surround

Connect the Left and Right AUDIO OUT jacks on the DVD+VCR to the audio left and right in jacks on your amplifier, receiver or stereo system, using the supplied audio cables (A2).

Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2 or DTS)

1 Connect the DVD+VCR's DIGITAL AUDIO OUT jack (COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (coaxial X) audio cable.

2 You will need to activate the DVD+VCR's digital output. (See "Digital Audio Output" on page 19).

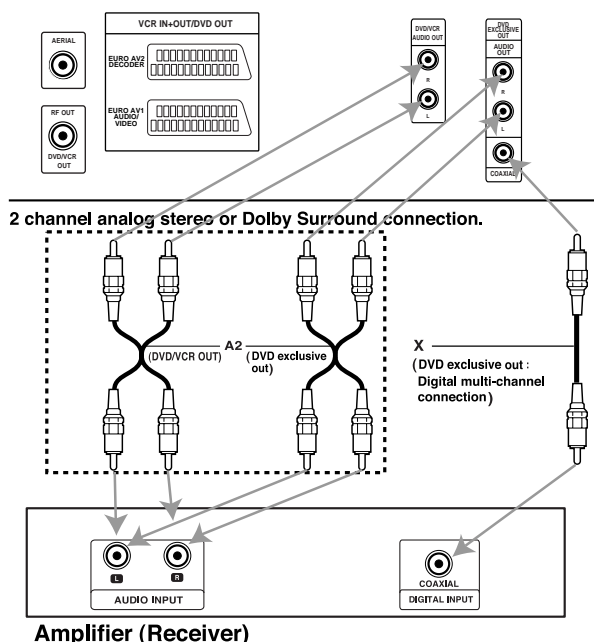
Digital Multi-channel sound

A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your DVD+VCR (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

Warning:

Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

Rear of DVD+VCR



Notes

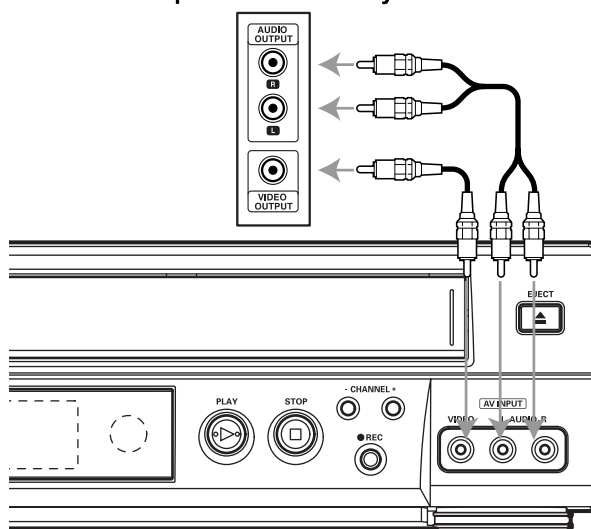
- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- To see the audio format of the current DVD in the On-Screen Display, press **AUDIO**.

Accessory Audio/Video (A/V) Connections to DVD+VCR

Connect the **AV INPUT** jacks on the DVD+VCR to the audio/video out jacks on your accessory component, using the optional audio/video cables.



Jack panel of Accessory



Front of DVD+VCR

Before Operation - VCR part

Video channel Set

Video channel (RF output channel) is the channel on which your TV receives picture and sound signals from the DVD+VCR through the RF cable.

If you have used a **SCART** lead you will not have to tune your TV, simply select the **AV** channel. The **AV** channel is already pre-tuned for optimum video playback on your TV.

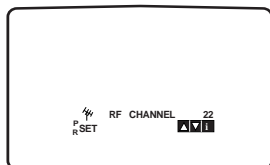
Perform the following steps only if interference appears in the TV picture after you have moved to a different area or a new station has started broadcasting in your area, or if you change the connection from RF connection to AV connection, or vice versa.

- 1 Turn on DVD+VCR and TV.
- 2 Set the vacant position 22 on your TV.
- 3 Press **⏻** on the remote control to enter the standby mode (the clock indicator will be dimmed).

- 4 Press and hold **CHANNEL +** or **-** on the DVD+VCR for more than 4 secs.

RF 22 will appear in the DVD+VCR display.

The following picture will be displayed on the TV screen.



If the picture is snowy, move to step 5.

If the picture is clean, press **⏻** on the DVD+VCR to store the RF channel. The video channel is now set.

- 5 Press **CHANNEL +** or **-** on the DVD+VCR to set the video channel to a vacant position between 22 and 68 which is not occupied by any local station in your area.

N Note

The RF channel will not change until step 6 has been executed.

- 6 Press **⏻** to store the new RF channel into the DVD+VCR.
- 7 Press **⏻** to bring the DVD+VCR from standby to on and follow your TV manufacturers tuning instruction manual to tune a new channel to the DVD+VCR.

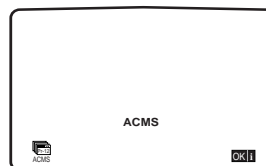
Using your DVD+VCR for the very first time

For the following steps we assume that you have just connected your DVD+VCR for the very first time. To make tuning TV stations an easy task your DVD+VCR incorporates the **Automatic Channel Memory System (ACMS)**. This system will automatically tune and store TV channels in your DVD+VCR. While this is happening the clock (date & time) in the DVD+VCR will be set automatically.

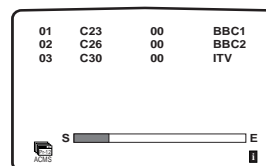
- 1 Make sure that you have correctly installed your DVD+VCR.

- 2 Press **⏻** to turn on your DVD+VCR.

If the initial Menu Screen doesn't appear on screen, make sure that you have tuned your TV to a video channel. Or if this is correct it may mean that your DVD+VCR is already tuned.



- 3 Press **OK** to start the automatic tuning process.



Programme number TV Station

PR01	BBC1
PR02	BBC2
PR03	ITV
PR04	CH4(S4C)
PR05	CH5
PR06	Satellite

The TV station shown above may vary according to the area you live in.

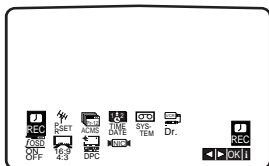
- 4 Press **i** to remove the menus from the TV screen.

Before Operation - VCR part

How to use the main menu

This DVD+VCR can easily be programmed by using the menus displayed on screen. The menus are controlled from the Remote Control Handset.

- 1** Switch on your TV set and DVD+VCR by pressing ϕ/I .
- 2** Press **i**. The main menu will appear on the TV screen.



- **REC**
Timer recording setting (see p. 24-25).
- **PR SET**
Manual tuning setting (see p. 14).
- **ACMS**
ACMS (Automatic Channel Memory System) (see right column).
- **TIME DATE**
Date & clock setting (see p. 16).
- **SYSTEM**
To set the Colour TV System (see p. 16).
- **Dr.**
To check a problem with your DVD+VCR (see p. 31).
- **fOSD ON/OFF**
To display the operational mode of your DVD+VCR (see p. 31).
- **16:9/4:3**
To select the aspect ratio of your TV (see p. 32).
- **DPC**
To improve the playback picture (see p. 21).
- **NIC**
To activate or deactivate the NICAM digital sound (see p. 32).

- 3** Press \blacktriangleleft or \blacktriangleright to select the desired menu.

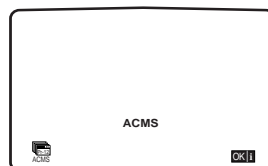
- 4** Press **OK** and press \blacktriangle or \blacktriangledown to select.

- 5** Press **i** to return to a TV picture.

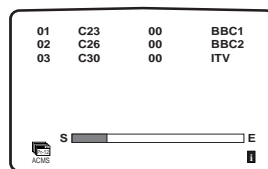
Tuning in TV Stations Automatically

Should you wish to perform the **Automatic Channel Memory System (ACMS)** again please follow the guidance given on this page. You may tune up to 88 TV stations into your DVD+VCR.

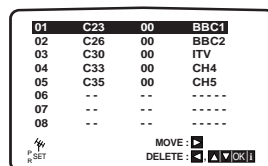
- 1** Press ϕ/I to turn on your DVD+VCR.
- 2** Press **i**. The main menu will appear on the TV screen.
- 3** Press \blacktriangleleft or \blacktriangleright to select **ACMS** and press **OK**.



- 4** Press **OK** again to start the automatic tuning process.



- 5** While automatic tuning is taking place the time and date will set automatically. If - - : - - appears in the DVD+VCR display it means that the broadcast signal is weak and the clock was not set. Please turn to **CLOCK SET** section of this book on page 16.



- 6** Press **i** to remove the menus from the TV screen.

Before Operation - VCR part

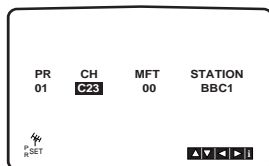
Tuning in TV Stations Manually

In certain areas of the country broadcast signals may be too weak for your DVD+VCR's automatic tuning process to find or assign TV stations correctly. You must tune in these weaker broadcast stations manually in order for your DVD+VCR to store them.

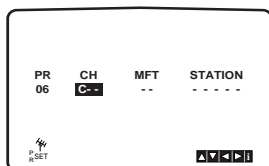
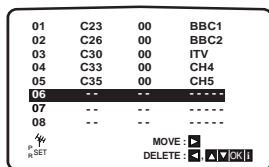
1 Press i.

The main menu will appear on the TV screen.

2 Press ◀ or ▶ to select PR SET and press OK.

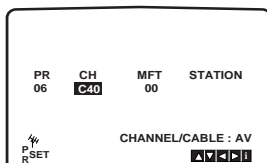


3 Press i and press ▲ or ▼ to select the programme number that you want to tune (for example, PR 06). Press OK.



4 Press ▲ or ▼ to find out the station that you want to tune and press ▶.

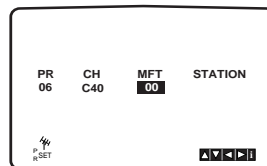
If the frequency number is known, enter the channel number of station that you want to tune with the numerical buttons.



5 Searching will stop when it locates a station.

If the station transmits PDC, the station name will be added automatically.

Control the fine tuning of the station by pressing ▲ or ▼.

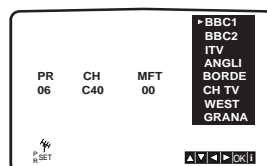


6 Press ▶ to select STATION and press OK.

The TV station name list will appear.

Press ▲ or ▼ to select a station name from the list and press OK to select it.

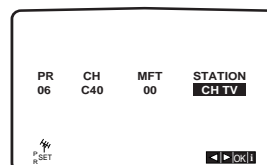
If your station name isn't on the list do not press OK, but go to stage 7.



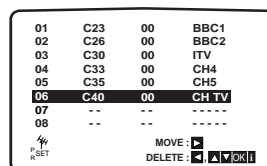
7 You can change a TV station name manually rather than using the "standard" names.

Press ▶ and press ▲ or ▼ to select letters and numbers for the new station name.

Press ◀ or ▶ to move back and forth between characters. Press OK.



8 Press i, confirm the station placement.



9 Press i to remove the menus from the TV screen.

Your new TV station has now been tuned into your DVD+VCR.

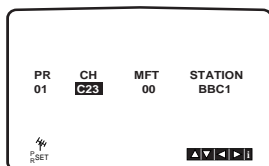
If you wish to manually tune other stations repeat stages 1 - 8.

Before Operation - VCR part

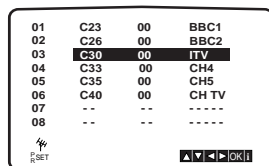
Changing the order of TV Stations

After tuning TV stations into your DVD+VCR you may wish to **change** the order in which they are stored without having to retune them. The instructions given on this page will show you how you can simply move them into your desired order.

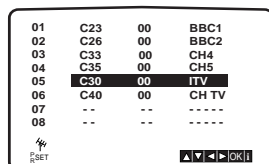
- 1 Press **i**.
The main menu will appear on the TV screen.
Press **◀** or **▶** to select PR SET and press OK.



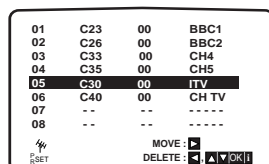
- 2 Press **i**.
Press **▲** or **▼** to select the programme number you want to move (for example, PR 03).
Press **▶**.



- 3 Press **▲** or **▼** to select the programme number you want to move to (for example, PR 05).



- 4 Press OK.
The selected programme will be moved to the new programme number.



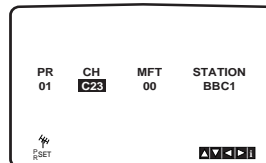
- 5 Press **i** to remove the menus from the TV screen.

If you wish to move other TV stations repeat stages 1 - 4.

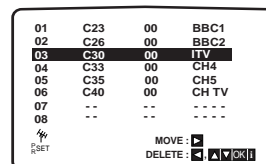
Deleting TV Stations

After tuning TV stations into your DVD+VCR you may wish to **delete** a station.
The instructions given on this page will show you how to easily delete any unwanted TV stations.

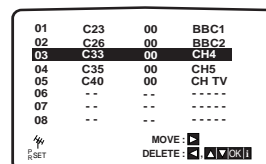
- 1 Press **i**.
The main menu will appear on the TV screen.
Press **◀** or **▶** to select PR SET and press OK.



- 2 Press **i**.
Press **▲** or **▼** to select the programme number you want to delete (for example, PR 03).



- 3 Press **◀**.
After a short while, the selected station will be deleted.



- 4 Press **i** to remove the menus from the TV screen.

If you wish to delete other TV stations repeat stages 1 - 3.

How to select Stored TV stations:

Stored TV stations can be selected in either of two ways.

Press **▲** or **▼** to select different stations that are tuned into your DVD+VCR.

You may also directly select stations using the **numerical buttons** on the remote control.

Before Operation - VCR part

Setting the clock Manually

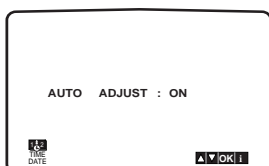
The clock in your DVD+VCR controls time, day and date settings for your DVD+VCR.

For VIDEO Plus+ system to work correctly the correct time and date must be set. The clock is set automatically during ACMS (Automatic Channel Memory System) when your DVD+VCR detects a channel that broadcasts a Teletext signal.

If the broadcast signal is weak the clock will not be set and will require setting manually.

- 1 Press **i**.
Press **◀** or **▶** to select **TIME DATE** and press **OK**.

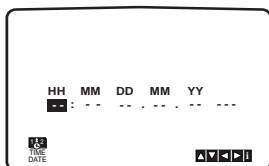
The auto adjust mode can be set to "OFF" by pressing **▲** or **▼** if you want to set the time manually.



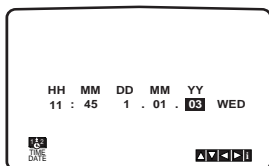
- 2 Press **OK**.
Use the numerical buttons or press **▲/▼** or **◀/▶** on the remote control to alter the **HOURS, MINUTES, DAY, MONTH** and **YEAR**.

Please note your DVD+VCR uses a 24-hour clock. e.g. 1pm will be displayed as 13:00.

The day of the week will appear automatically when you enter the year.



- 3 If you make a mistake, press **◀** or **▶** and enter the correct details.



- 4 Press **i** to remove the menus from the TV screen.

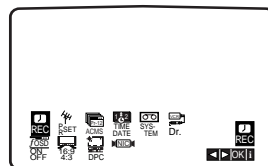
Your new clock settings are stored and will appear on your DVD+VCR's Display.

To set the colour system

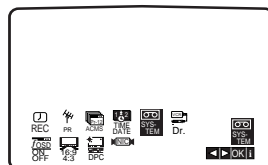
Your DVD+VCR is equipped with dual colour standard, you can play back a tape in PAL and MESECAM. During playback your DVD+VCR detects the colour system automatically.

If there is any colour problem please select the colour system manually.

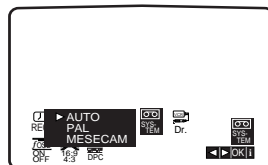
- 1 Press **i**.
The main menu will appear on the TV screen.



- 2 Press **◀** or **▶** to select the **SYSTEM**.
Press **OK**.



- 3 Press **▲** or **▼** to select according to the **COLOUR** system used.



AUTO:

Allows PAL or MESECAM signals to be distinguished automatically.

PAL:

Use when receiving PAL signals or use when playing back a tape recorded in PAL system.


MESECAM:

Use when receiving MESECAM signals or use when playing back a tape recorded in MESECAM system

- 4 Press **i** to remove the menus from the TV screen.

Before Operation - DVD part

General Explanation

This manual gives the basic instructions for operating the DVD+VCR. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol  appears on the TV screen, indicating that the operation is not permitted by the DVD+VCR or is not available on the disc.









On-Screen Display

The general playback status can be displayed on the TV screen. Some items can be changed on the menu.

On-screen display operation

- 1 Press DISPLAY during playback.**
- 2 Press ▲/▼ to select an item.**
The selected item will be highlighted.
- 3 Press ◀▶ to change the setting of an item.**
The numerical buttons can be also be used for setting numbers (e.g., title number). For some functions, press SELECT/OK to execute the setting.








Temporary Feedback Field Icons

	Repeat Title
	Repeat Chapter
	Repeat Track (non-PBC Video CDs only)
	Repeat All Tracks (non-PBC Video CDs only)
	Repeat A-B
	Repeat Off
	Resume play from this point
	Action prohibited or not available





Notes

- Some discs may not provide all of the below On-Screen Display.
- If no button is pressed for 10 seconds, the On-Screen Display disappears.

DVD

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Title Number	 1/3	Shows the current title number and total number of titles, and skips to the desired title number.	◀ / ▶, or Numeric, SELECT/OK
Chapter Number	 1/12	Shows the current chapter number and total number of chapters, and skips to the desired chapter number.	◀ / ▶, or Numeric, SELECT/OK
Time search	 0:16:57	Shows the elapsed playing time, and searches the point by the elapsed time directly.	Numeric, SELECT/OK
Audio language and Digital Audio Output mode	 1 ENG 5.1 CH	Shows the current audio soundtrack language, encoding method, and channel number, and changes the setting.	AUDIO, ◀ / ▶
Subtitle language	 OFF	Shows the current subtitles language, and changes the setting.	SUBTITLE, ◀ / ▶
Angle	 1/1	Shows the current angle number and total number of angles, and changes the angle number.	ANGLE, ◀ / ▶
Sound	 NORM.	Shows the current sound mode, and changes the setting.	◀ / ▶

VCD2.0 VCD1.1

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Track Number	 1/4	Shows the current track number, total number of tracks and PBC On mode, and skip to the desired track number.	◀ / ▶, or Numeric, SELECT/OK
Time	 0:16:57	Shows the elapsed playing time (Display only)	—
Audio Channel	 STER.	Shows the audio channel, and changes the audio channel.	AUDIO, ◀ / ▶
Sound	 NORM.	Shows the current sound mode, and changes the setting.	◀ / ▶

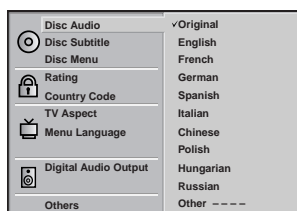
Before Operation (Continued) - DVD part

Initial Settings

You can set your own Personal Preferences on the DVD+VCR.

General Operation

- 1 Press SETUP.**
The setup menu appears.



- 2 Press ▲/▼ to select the desired item.**
The screen will show the current setting for the selected item, as well as alternate setting(s).
- 3 While the desired item is selected, press ►, then ▲/▼ to select the desired setting.**
- 4 Press SELECT/OK to confirm your selection.**
Some items require additional steps.
- 5 Press SETUP, RETURN or PLAY (►) to exit the setup menu.**

Language

Disc Language **DVD**

Select a language for the disc's Menu, Audio, and Subtitle.

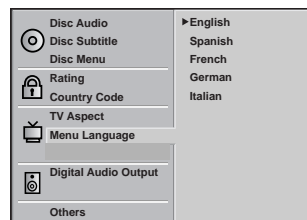
Original : The original language set for the disc is selected.

Other : To select another language, press numerical buttons to enter the corresponding 4-digit number according to the language code list on page 37. If you enter the wrong language code, press CLEAR.



Menu Language

Select a language for the setup menu. This is the menu you see when you press SETUP.



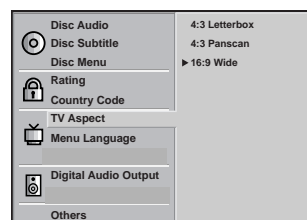
Picture

TV Aspect **DVD**

4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.

4:3 Panscan: Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both sides of the picture are cut off.

16:9 Wide: Select when a 16:9 wide TV is connected.



Before Operation (Continued) - DVD part

Sound

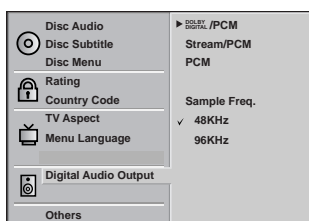
Digital Audio Output

Each DVD disc has a variety of audio output options. Set the DVD+VCR's Digital Audio Output according to the type of audio system you use.

DOLBY DIGITAL/PCM: Select "DOLBY DIGITAL/PCM" if you connected the DVD+VCR's DIGITAL AUDIO OUT jack to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).

Stream/PCM: Select "Stream/PCM" if you connected the DVD+VCR's DIGITAL AUDIO OUT jack to an amplifier or other equipment with a DTS decoder, Dolby Digital decoder or MPEG decoder.

PCM: Select when connected to a 2-channel digital stereo amplifier. The DVD+VCR output sounds in the PCM 2ch format when you play a DVD video disc recorded with a Dolby Digital, MPEG1, or MPEG2 recording system.



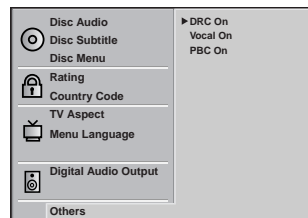
Sample Frequency

To change the Sample Frequency setting, first select the desired Digital Audio Output as indicated as above. If your receiver or amplifier is NOT capable of handling 96KHz signals, select 48KHz. When this choice is made, this unit will automatically convert any 96KHz signals to 48KHz so your system can decode them. If your receiver or amplifier is capable of handling 96KHz signals, select 96KHz. When this choice is made, this unit will pass each type of signal through without any further processing.

Others

The DRC, Vocal and PBC settings can be changed.

- Press ▲/▼ to select the desired item and press SELECT/OK. The setting of the selected item is changed between On and Off.



Dynamic Range Control (DRC)

With the DVD format, you can hear a programme's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.

Vocal

Set Vocal to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into a normal stereo sound.

PBC

Set Playback Control (PBC) to On or Off.

On: Video CDs with PBC are played according to the PBC.

Off: Video CDs with PBC are played the same way as Audio CDs.

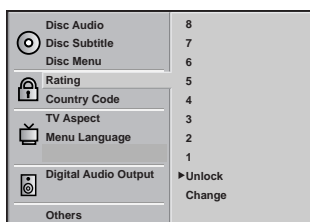
Parental Control

Rating **DVD**

Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country-dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.

1 Select "Rating" on the Setup menu using **▲▼**.

2 While "Rating" is selected, press **►**.



3 When you have not entered a password yet.

Enter a 4-digit password using the numerical buttons to create a personal 4-digit security password, then press SELECT/OK. Enter the 4-digit password again and press SELECT/OK to verify.

When you have already entered a password;

Enter a 4-digit password using the numerical buttons to confirm the personal 4-digit security password, then press SELECT/OK.

If you make a mistake before pressing SELECT/OK, press CLEAR and enter 4-digit security password again.

4 Select a rating from 1 to 8 using **▲▼**. One (1) has the least playback restrictions. Eight (8) has the most playback restrictions.

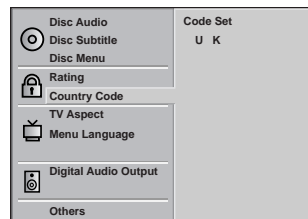
Unlock: If you select Unlock, Parental Control is not active. The disc will play in full.

Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the DVD+VCR, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

5 Press SELECT/OK to confirm your rating selection, then press **SETUP** to exit the menu.

Country Code **DVD**

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country Code List", page 38).



1 Select Country Code using **▲▼** on the setup menu.

2 While Country Code is selected, press **►**.

3 Follow step 3 of "Rating" on left.

4 Select the first character using **▲▼**.

5 Shift the cursor using **◀▶** and select the second character using **▲▼**.

6 Press SELECT/OK to confirm your country code selection, then press **SETUP** to exit the menu.

Note

Confirmation of the 4-digit password is necessary when the code is changed (see "Changing the 4-digit code" below).

Changing the 4-digit code

- Follow Steps 1-2 as shown above to the left (Rating).
- Enter the old code, then press SELECT/OK.
- Select "Change" using the **▲▼** buttons then press SELECT/OK.
- Enter the new 4-digit code, then press SELECT/OK.
- Enter exactly the same code a second time and verify by pressing SELECT/OK.
- Press **SETUP** to exit the menu.

If you forget your 4-digit code

If you forget your password, to clear the current password, follow the procedure below.

- Press **SETUP** to display the setup menu.
- Use the numerical buttons to enter the 6-digit number "210499".
The 4-digit password is cleared.
- Enter a new code as shown above to the left (Rating).